



*P<sub>lac</sub>* 5'  
CGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCC  
CGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTT  
TACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAAT 3'  
(SEQ ID NO 1)

*P<sub>phoP</sub>* 5'  
GTGACTCTGGTCGACGAACTTAAATAATGCCTGCCTCACCCCTCTTTTCTTCAGAAAGAGGGTGACTATTTG  
TCTGTTTATTAAGTGTATCCCCAAAGCACCATAATCAACGCTAGACTGTTCTTATTGTTAACACA 3'  
(SEQ ID NO 2)

*P<sub>pagC</sub>* 5'  
GTTAACCACCTCTTAATAATAATGGGTTTTATAGCGAAATAGACTTTTTTATCGCGTGTTCAATATTTGCGT  
TAGTTATTATTTTTTTGGGAATGTAAATCTCTCTAAACACAGGTGATATTTATGTTGGAATTGTGGTGTTG  
ATTCTATTCTTATAATATAACAAGAAATGTTGTAAGTATAGATATATTAAGAAATTAATCGGAGCGGGA  
ATAAAGCGTGCTAAGCATCATCGTGAATATGATTACAGCGCCTGCGATGGCATATAACCGTATTGCGGATG  
GAGCGTCACGTGAGGACTGTGAAGCACAAATGCGATATGTTCTGATTATATGGCGAGTTTGCTTAATGACAT  
GTTTTTAGCCGAACGGTGTCAAGTTTCTTAATGTGGTTGTGAGATTTTCTCTTTAAATATCAAAATGTTGC  
ATGGGTGATTTGTTGTTCTATAGTGGCTAAACACTTTATGGTTTCTGTTAAATATATATGCGTGAGAAAAA  
TTAGCATTCAAATCTATAAAGTTAGATGACATTGTAGAACCGTTACCTAAATGAGCGATAGAGTGCTTC  
GGTAGTAAAAATATCTTTCAGGAAGTAAACACATCAGGAGCGATAGCGGTGAATTATTCGTGGTTTTGTCTG  
ATTCGGCATAGTGGCGATAACTGAATGCCGGATCGGTACTGCAGGTGTTTAAACACACCGTAAATAATAAG  
TAGTA 3'  
(SEQ ID NO 3)

*P<sub>ompC</sub>* 5'  
TAAACAGACATTCAGAAGTGAATGACGGTAATAAATAAAGTTAATGATGATAGCGGTCACTATTTTAGTTG  
CGAATGAAGATTCTGTTTTATCATTCACTGCTATGAATTTTCATCAATTTAACCCGTTGATTTTAAAGTTT  
CGTGAAATATATTTTGTCTATTTGTGCTTATTTTTACTTGATTTTTGCTTTAAAAAAGTTCCGTAAATTC  
ATATTTTGAACATCTATATAGATAACTGTAACATCTTAAAGTTTATGATATCATATTCGTGTTGGATTAT  
TCTGTATTTTTGCGGAGAAATGGACTTGCCGACTGGTTAATGAGGGTTAACCAGTAAGCAGTGGCATAAAAA  
AGCAATAAAGGCATAT 3'  
(SEQ ID NO 4)

The locations of oligonucleotide primers used in the PCR are shown underlined. Promoter regions are shown in bold and repeated sequences upstream of these promoters are shown double underlined